

CERNOCH, S., prof., inz.

Injector blowpipes; the theory and practice. Hut listy 16 no.1:52-53
Ja '61.

1. Vedouci katedry peci hornicke fakulty, Vysoka skola technicka,
Kosice.

CERNOCH, S., prof., inz.

Trends in soaking pits development. Hut listy 17 no.8:549-554
Ag '62.

1. Vysoka skola technicka, Kosice.

CERNICH, S.

16(1); 18(3), (6);
22(2); 11(2); 14(5) PHASE I BOOK EXPLOITATION CZECH/2579

Sborník vedeckých prac vysokej školy technickej v Košiciach,
II, 1957 (Collection of Scientific Works of the Higher
Technical School in Košice, II, 1957) Bratislava, SVTL,
1957. 198 p. 1,300 copies printed.

Resp. Ed.: Igor Žádko; Tech. Ed.: F.N. Blažko; Chief Ed.:
Pavol Holčzy, Engineer.

PURPOSE: This collection of articles is intended for scientists
and engineers interested in the subjects discussed.

COVERAGE: This collection of 13 articles written by members of
the faculty of the Košice Higher Technical School covers a
variety of subjects, including mathematics, metallurgy,
mining engineering, etc. Each article is accompanied by a
resume in Slovak, Russian, and German. References are
listed at the end of each article; the majority of listings
are Slovak, German, and Soviet.

Cernich, S., Professor, Engineer. Regeneration of Spent Gas
in Industrial Furnaces

1. Survey of fundamentals of design
2. Principles of heat engineering

Resume

References

53
56
56
67

Spal, Tindrich, Engineer (Department of Metallurgical
Furnaces and Power Equipment). Pressure Control in the
Working [Combustion] Space of a Furnace With Natural
Draught

Introduction

- I. Significance of draught control
 - A. Factors affecting draught in furnaces
 - B. Basic relations and their calculation
- II. Control by choking
 - A. Theoretical principles
 - B. Mathematical example of control by choking
- III. Control by mixing
 - A. Theoretical principles

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Card 4/8

CERNOCH, S., prof., inz.; REPISKY, I., inz.; SPAKOVSKY, E.

Heating ingots in a two-way soaking pit. Hut listy 16 no.5:335-
342 My '61.

1. Katedra peci, Vysoka skola technicka, Kosice.

GERNOCH, Svatopluk, prof., inz.

Thermodynamics of thermal operation of industrial
furnaces. Sbor VST Kosice 2: 81-96 '62.

1. Katedra peci a hutnickej energetiky, Vysoka skola
technicka, Kosice.

CERNOCH, Svatopluk, prof., inz.; SSU Hung-Fa, inz.

Improvement of the heat efficiency of blast heaters.
Sbor VST Kosice 2:97-119 '62.

1. Katedra peci, Vysoka skola technicka, Kosice.

CERNOCH, S., prof., inz.; SSU HUNG FA, inz.

Improving the thermal efficiency of blast furnace stoves. Hut listy
18 no.3:157-166 Mr '63.

1. Katedra peci, Vysoka skola technicka, Kosice.

CERNOCH, S., prof., inz.; REPISKY, I., inz.; SPAKOVSKY, E.; TOMCO, S., inz.

From two-way to four-way soaking pits. Hut listy 18 no.4:239-246
Ap '63.

1. Katedra peci, Vysoka skola technicka, Kosice.

CERNOCH, Sv.

General relation of the volume of heat capacity of combustion products and the change of physical properties with the charge of heating differences and uniformity of heating. Sbor VST Kosice 1:87-94 '64.

Thermodynamics of heat exchange in tunnel furnaces. Ibid.: 95-104

1. Chair of Furnaces and Metallurgical Power Engineering of the Higher School of Technology, Kosice. Submitted October 1, 1962.

CERNOCH, Svatopluk, prof. inž.

Thermotechnological principles of the design of periodically
operating heating furnaces. Hut listy 19 no.5:318-325 My '64

1. Higher School of Technology, Nošice.

CHERNOKH, S., [Cernoch, S.], prof.

Modernization of soaking pits with bottom firing. Stal' 24
no.12:1142-1143 D '64. (MIRA 18:2)

1. Politekhnicheskiy institut v g. Koshitse, Chexhoslovatskaya
Sotsialisticheskaya Respublika.

L 21357-66 EWP(t) JW/JD

ACC NR: AP6010890

SOURCE CODE: CZ/0034/65/000/C08/0562/0570

AUTHOR: Cernoch, Svatopluk (Professor; Engineer)

ORG: none

TITLE: Thermodynamics of the thermal works of a furnace and its graphical presentation 53
B

SOURCE: Hutnicke listy, no. 8, 1965, 562-570

TOPIC TAGS: entropy, heat transfer, thermodynamic law, thermodynamics, furnace, heat balance

ABSTRACT: Thermodynamic methods allowing the determination of optimum conditions for the use of fuel and application of heat in the furnaces are not yet investigated to a satisfactory degree of completeness. Thermo-kinetics describing the heat transfer within the charge have been investigated to a great extent. The first law of thermodynamics can be interpreted in terms of heat balance and heat efficiency; the second in terms of energy balance and of efficiency. Graphical presentation of the heat balance is used in the Sankey, Reichardt and Thring diagrams. Energetic balance is depicted in Grassmann's diagram, and in Thring's virtue diagram, and by the entropy temperature diagram. The ranges of validity of the individual diagrams, their advantages and disadvantages are discussed. Orig. art. has: 14 figures. [JPRS]

SUB CODE: 20, 13 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 014
SOV REF: 002

Card 1/1 *l*

UDC: 669.012.34

L 34934-66	T/EMP(t)/ETI	LIP(c)	ID
ACC NR: AP6026628	SOURCE CODE: CZ/0034/66/000/004/0255/0259		
AUTHOR: <u>Cernoch, Svatopluk</u> (Professor; Engineer)			
ORG: none			
TITLE: Fundamentals of thermodynamics of <u>furnace heating</u> 9 B			
SOURCE: Hutnicke listy, no. 4, 1966, 255-259			
TOPIC TAGS: industrial furnace, heating engineering, heat balance, heat capacity			
ABSTRACT: The heat balance and heat utilization are studied with the help of a diagram, where the temperature and specific heat are plotted as ordinates, and the heat capacity, volume, or weight as the abscissa. The utilization of heat increases with increasing heat capacity of the charge, temperature of the heating gas, and the latent heat of the charge. A determination of the minimum volume of gas required for heating of a given charge is described; the influence of mass transfer in the operation is discussed. The type of the illustrated problem is met in batch type, and in parallel flow continuously operating furnaces. Orig. art. has: 5 figures and 7 formulas. [Based on author's Eng. abst.] [JPRS: 36,646]			
SUB CODE: 13 / SUBM DATE: none			
Card 1/1, JLR		UDC: 669.045	

L 35940-66

ACC NR: AP6027380

SOURCE CODE: CZ/0034/65/000/000/00/0636

AUTHOR: Cernoch, Svatopluk (Professor; Engineer)

41

ORG: none

B

TITLE: New graphical method for illustration of the thermodynamics of the thermal work of a furnace

SOURCE: Hutnicke listy, no. 9, 1965, 630-636

TOPIC TAGS: industrial furnace, thermodynamics, heat balance, graphic technique, enthalpy

ABSTRACT:

A process for solving the heat and energetic balances of furnaces by a graphical method is described. In the diagram, heat and energy are represented by areas. In a heat balance, heat may be defined as a product of the mean thermal capacity and the temperature difference, or as a product of weight or volume and enthalpy of the substance. Energy is defined as the product of the mean thermal capacity and unit energy. The diagram indicates temperature differences, amounts of transferred heat, and mass balances. The plotting of the graphs is easy. Orig. art. has: 5 figures and 6 tables. [Based on author's Eng. abst.] [JPRS]

SUB CODE: 20, 13, 12 / SUBM DATE: none / ORIG REF: 008

Card 1/1 *ms*

UDC: 669.012.34

0917

0.507

CERNOCH, Sr.

Arrangement of combustion gas flow by a direct course or internal recirculation and the difference between their thermodynamics and thermokinematics. Sbor VST Kosice no.1: 77-84 '63.

1. Department of Furnaces, Higher School of Technology, Kosice.

CERNOCH, S., prof., inz.; HOLECZY, J., inz.; SEHNALEK, F., inz.; SCHMIEDL, J.,
inz.

Oxidation volatile melting of sulfidic antimony concentrates; discussion.
Hut listy 18 no.4:273-274 Ap '63.

CERNOC, ZDENEK

BASTECKY, Jan; BRZEK, Vladimir; STEINHART, Leo; CERNOC, Zdenek; SKRIVANEK,
Ota; HUZICKA, Karel

Clinical evaluation of splenoportography. Cas.lek.cesk. 94 no.14:
359-365 1 Apr 55.

1. Z radiologicke kliniky klinicke nemocnice VIA a z chirurgicke
kliniky klinicke nemocnice VIA v Hradci Kralove.
(SPLEEN, radiography,
splenoportography, clin. evaluation)

CERNOCH, Zdenek; HAVA, Otakar; PINSKER, Premysl

Roentgen-diagnosis of parathyroid adenomas by means of pneumo-mediastinography and peristumography. Cas.lek.cesk 99 no.29: 919-920 15 J1'60.

1. Radiologicka, chirurgicka a I. interni klinika LF KU, Hradec Kralove.

(ADENOMA radiog)

(PARATHYROID GLANDS neopl)

(PNEUMOMEDIASTINUM)

BASTECKY, Jan; CERNOCH, Zdenek

Simple roentgen findings in expansive tumorous processes in the region of the optic nerve, chiasm and optic tract. Sborn. ved. prac. lek. fak. Karlov. univ. (Hrad Kral) 4 no.2:139-159 '61.

1. Radiologicka klinika: prednosta prof. Dr. Sc. MUDr. J. Bastecky.
(BRAIN NEOPLASMS radiography) (SKULL radiography)

CERNOCH, Z.; TOMANEK, J.; SKRIVANEK, O.; KREN, V.

Roentgenographic cinematography of the digestive tube. Cesk.rentg.
15 no.1:1-9 F '61.

1. Radiologicka klinika LF KU v Hradci Kralove, prednosta prof.

Dr. Sc.dr. Jan Bastecky.

(CINEFLUOROGRAPHY)

(GASTROINTESTINAL SYSTEM radiog)

CERNOCH, Zdenek; ZBORIL, Miroslav

Roentgen cinematographic records of esophageal speech. Cesk.rentg.
15 no.2:85-92 Ap '61.

1. Radiologicka klinika KU v Hradci Kralove, prednosta prof.dr.
Sc. MUDr. Jan Bastecky. Otorinolaryngologicka klinika KU v Hradci
Kralove, prednosta prof.dr.Sc. MUDr Jan Hybasek.
(LARYNX surgery)
(SPEECH)
(CINEFLOUROGRAPHY)

BASTECKY, Jan; CERNOCH, Zdenek

Simple roentgen findings in expansive tumor processes in the area of the optic nerve, chiasm and optic tracts. Cesk. ofth. 17 no.4/5: 248-249 J1 '61.

1. Lekarska fakulta Karlovy university v Hradci Kralove, katedra radiologie, prednosta prof. MUDr. J. Bastecky, Dr. Sc.

(BRAIN NEOPLASMS radiography)
(OPTIC NERVE diseases)

MIHOLA, Milan; KONECNY, Bohumil; CERNOCH, Zdenek

Jegunogastric invagination. Rozhl. chir. 40 no.8:562-568 Ag '61.

1. Chirurgická klinika lékařské fakulty University Karlovy v Hradci Kralove, prednosta prof. dr. Jaroslav Prochazka; Radiologická klinika v Hradci Kralove, prednosta prof. dr. Jan Bastecky.

(GASTRECTOMY compl) (INTUSSUSCEPTION etiol)

HYBASEK, I.; CERNOCH, Zd.; HRADSKY, M.

Esophageal findings in Sjogren's syndrome (epitheloxerosis). Cesk.
otolaryng. 11 no.6:347-349 D '62.
(SJOGREN'S SYNDROME) (ESOPHAGOSCOPY)

CERNOCH, Zdenek; KREN, Vitezslav; KVASNICKA, Jiri; SLEZAK, Premysl

The significance of lumbar aortography in hypertensive patients.
Sborn. ved. prac. lek. fak. Karlov. Univ. 9 no.1:155-159 '64.

1. Radiologicka klinika (prednosta: prof. MUDr. J. Bastecky,
DrSc.) a I. interni klinika (prednosta: prof. MUDr. F. Cernik)
Karlovy University v Hradci Kralove.

KREN, V.; CERNOCH, Z.; STEINHART, L.; ENDRYŠ, J.; SLEZAK, P.; PUDIL, V.;
PRIBORSKY, J.; HODAN, J.

Venography of the liver and kidneys with slowed-down circulation
by means of intrabronchial hypertension in animal experiments.
Cesk. radiol. 19 no.4/5:285-288 Ag '65.

1. Radiologická a chirurgická klinika lékařské fakulty Karlovy
University v Hradci Králové, CSSR.

CERNOCH, Z.; KREN, V.; KOPECNY, J.; KVASNICKA, J.; SLEZAK, P.; STEINHART, L.;
NAVRATIL, P.

Roentgen findings in hypertensive patients during lumbar
aortography and renovasography. Cesk. radiol. 19 no.4/5:
311-314 Ag '65.

1. Radiologicka klinika, ustav patologicke anatomie, I. interni
a urologicka klinika lekarske fakulty Karlovy University v Hradci
Kralove, CSSR.

CERNOCH, Zdenek; KREN, Vitezslav; JELINEK, Oldrich

Arteriographic findings in stenosis and obliteration of the
branches of the aortic arch. Sborn. ved. prac. lek. fak.
Karlovy Univ. 8 no.2:169-170 '65.

1. Radiologicka klinika (prednosta: prof. MUDr. J. Bastecky,
DrSc.) i II. interni klinika (prednosta* prof. MUDr. V. Jur-
kovic, DrSc.) Lekarske fakulty Karlovy university v Hradci
Kralove.

KREN, Vitezslav; CERNOCH, Zdenek; STEINHART, Leo; KNDRYŠ, Jiri;
SLEZAK, Premysl; PUDIL, Vratislav; PRIBORSKY, Jaromir;
HODAN, Jiri

Liver and kidney venography in animal experiments during
delayed circulation by intrabronchial hypertension. Sborn.
ved. prac. lek. fak. Karlov. Univ. 8 no.2:179-182 '65

1. Radiologika klinika (prednosta: prof. MUDr. J. Bastecky,
DrSc.) a Chirurgicka klinika (prednosta: prof. MUDr.
J. Prochazka, DrSc.) Lekarske fakulty Karlovy University
v Hradci Kralove.

MASURKA, Vladimir; NAVRATIL, Pavel; CERNOCH, Zdenek; ERBEN, Josef;
KVASNICKA, Jiri

Surgical treatment of renal hypertension. Sborn. ved. prac.
lek. fak. Karlov. Univ. 8 no.2:269-275 '65.

1. II. chirurgická klinika (prednosta: prof. MUDr. J. Procházka, DrSc.); Urologická klinika (prednosta: doc. MUDr. J. Svab, CSc.); Radiologická klinika (prednosta: prof. MUDr. J. Bastecky, DrSc.) a I. interní klinika (prednosta: prof. MUDr. F. Cernik) Lékařské fakulty Karlovy University v Hradci Králové.

CERNOCH, Zdenek. KREN, Vitezslav

Experimental study on gas angiocardiology. Sborn. ved. prac.
lek. fak. Karlov. univ. (Hrad.Kral.) 6 no.5 suppl.:631-636 '63

1. Radiologicka klinika (prednosta: DrSc. prof. MUDr. J.Basticky),
Karlova Universita v Hradci Kralove.

PUJMAN, V.; CERNOCHOVA, S.; HAMPEJSOVA, H.; JEDLICKOVA, M.

The effect of chlorprothixene and 6-mercaptopurine on the LA
VUFB mouse leukaemia. Neoplasma 10 no.4:365-370 '63.

1. Research Institute for Pharmacy and Biochemistry, Prague,
CSSR.

(CHLORPROTHIXENE) (MERCAPTOPURINE)
(LEUKEMIA, EXPERIMENTAL)
(ANTINEOPLASTIC AGENTS)
(BODY WEIGHT) (SPLEEN)
(LIVER)

CERNOCH, Zd.; KREN, V.

Roentgen cinematography of the esophagus. Cesk. otolaryng. 11 no.6:
336-338 D '62.

(ESOPHAGUS)

CERNOCHOVA, Z DENKA

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1. "Report of the Committee on the Organization of the Scientific Research in the USSR" (Moscow, 1971) p. 127.

2. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

3. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

4. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

5. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

6. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

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10. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

11. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

12. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

13. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

14. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

15. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

16. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

17. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

18. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

19. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

20. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

21. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

22. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

23. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

24. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

25. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

26. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

27. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

28. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

29. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

30. "The Scientific Research in the USSR" (Moscow, 1971) p. 127.

(30)

CERNOCHOVA, Z.

2

CZECHOSLOVAKIA

KRAL, B; CERNOCHOVA, Z; BARTAKOVA, L.

1. Second Internal Medicine Clinic of the Medical Faculty KU (II. interni klinika lekárske fakulty KU), Hradec Kralovy; 2. Rehabilitation Ward of the Faculty Hospital KUNZ (Rehabilitacni oddeleni fakultni nemocnice KUNZ), Hradec Kralovy - (for all)

Prague, Rozhledy v tuberkulose, No 3, 1963, pp 174-178
"The Value of Breathing Exercises in Bronchial Asthma."

KRAL, Bohuslav; CERNOCHOVA, Zdena; TUSL, Miloslav; SULC, Rudolf;
Tech. spoluprace: KACEROVA, M.

Cardiorespiratory functions at rest and under physical exertion
in patients with heart diseases. Sborn. ved. prac. lek. fak.
Karlov. Univ. 7 no.5:687-705 '64.

1. II. interni klinika (prednosta: prof. MUDr. V. Jurkovic)
a Katedra obecne hygieny (prednosta: prof. MUDr. V. Dvorak).

KRAL, Bohuslav; CERNOCHOVA, Zdena; Technicke spoluprace: KACEROVA, M.

Respiratory function in healthy women in relation to age.
Sborn. ved. prac. lek. fak. Karlov. Univ. 9 no.1:329-337
'64.

1. III. interni klinika (prednosta: prof. MUDr. V. Jurkovic)
Karlov University v Hradci Kralove.

KRAL, B.; TUSL, M.; CERNOCNOVA, Z.; SULC, R. Technicka spoluprace:
KACEROVA, M.

Diffusion lung capacity and various ventilation values at rest and after physical exertion in healthy persons of different age groups. Cas. lek. cesk. 104 no.29:796-799 16 JI'65.

1. II. interni klinika lekarske fakulty Karlovy University v Hradci Kralove (prednosta: prof. dr. V. Jurkovic) a Katedra hygieny lekarske fakulty Karlovy University v Hradci Kralove (vedouci: prof. dr. V. Dvorak).

KRAL, B.; CERNOCHOVA, Z.; TUSL, M.; SULC, R.; Technicka spoluprace:
KACEROVA, M.

Diffusion capacity of the lungs at rest and during physical work
in patients with heart defects. Cas. lek. Cesk. 104 no.45:1234-
1236 12 N '65.

1. II. interni klinika lekarske fakulty Karlovy University v
Hradci Kralove (prednosta prof. dr. V. Jurkovic) a Katedra
hygieny lekarske fakulty Karlovy University v Hradci Kralove
(vedouci prof. dr. V. Dvorak).

CERNOCKY, Vladimir

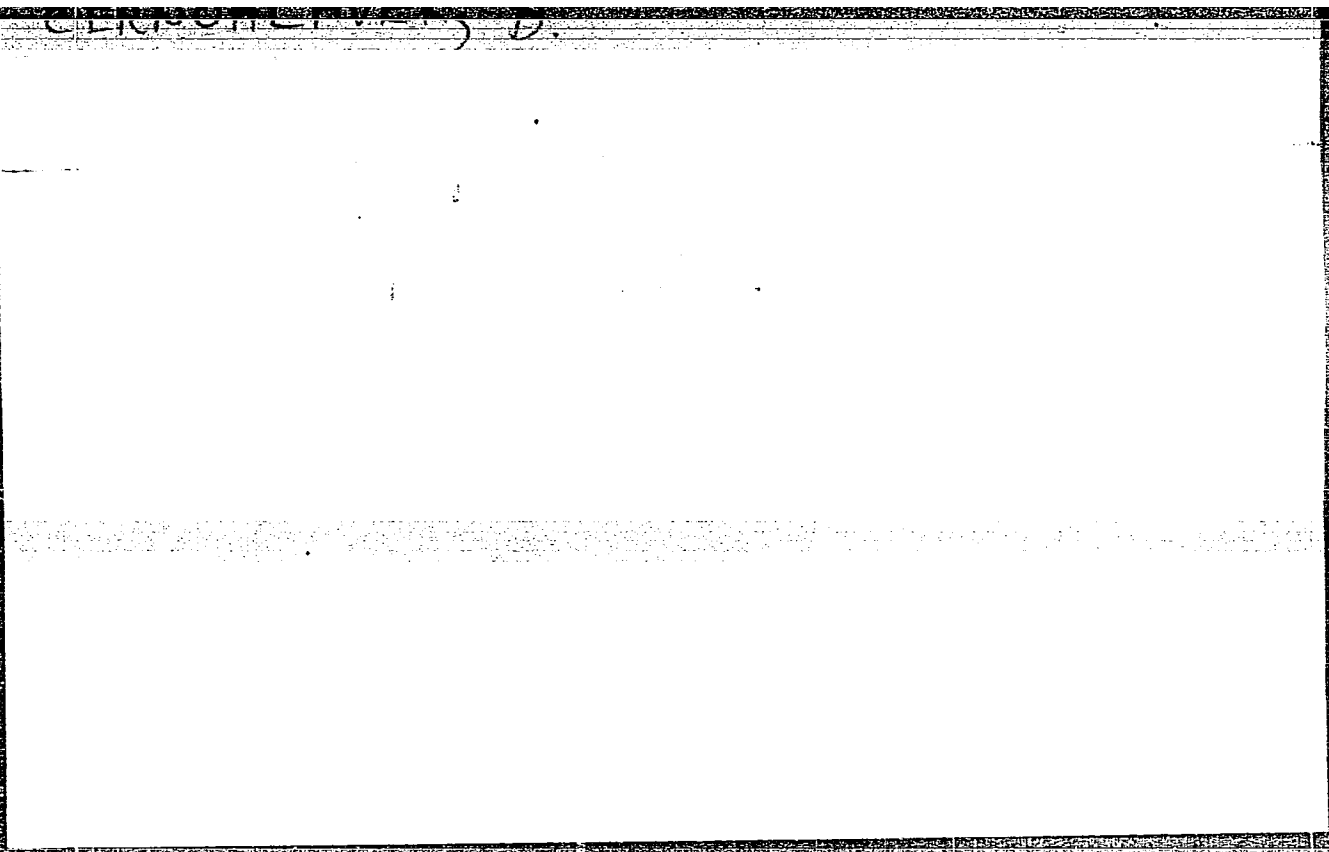
Why the high-frequency communication apparatus at the Ostrava main station is out of operation. Zel dop tech 11 no.7: 210 '63.

CERNOCKY, Vladimir

Railroad bridge over the Ostravice River. Zel dop tech 13
no.1:21 '65.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308030001-6



APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308030001-6"

L 38405-66 EWT(1)/T/EWP(t)/ETI/EWP(a) IJP(c) GG/JD

ACC NR:	AP6019919	SOURCE CODE:	CZ/0012/66/000/001/0041/0047
AUTHOR:	Cernohlavek, Dobroslav -- Chernoglavek, D. 51 3		
ORG:	Research Institute for Electrotechnical Ceramics, Hradec Kralove (Vyzkumny ustav elektrotechnicke keramiky)		
TITLE:	Effect of ¹¹ Co ions, Ni ions and Cr ions on the properties of ferroelectrics of the type $Pb, Sr(Zr, Ti)O_3$		
SOURCE:	¹⁷ Silikaty, no. 1, 1966, 41-47		
TOPIC TAGS:	ferroelectric material, dielectric property, piezoelectric property, resonator		
ABSTRACT:	The present paper treats the effect of small additions of CoO, NiO, and Cr_2O_3 on some properties of basic $Pb, Sr(Zr, Ti)O_3$ ferroelectrics in the fields of modification transformation. The additions examined have a complex effect on the resulting values. A partial substitution of strontium for lead ions manifests itself in a very marked way and can be used to control in a very wide range the dielectric and piezoelectric properties. The structure of the crystal lattice, showing a strong stress, can further be affected by small		
Card	1/3		

L 38405-66

ACC NR: AP6019919

additions of Co^{2+} , Ni^{2+} and Cr^{3+} ions, which under different conditions should not isomorphously replace the basic ions, but because of the reactions taking place do change the properties of the basic systems. There is a difference in the behavior of Ni^{2+} and Co^{2+} on the one hand and Cr^{3+} on the other hand. The course of permittivity is affected in a more marked way by changes in the place of bivalent ions. The course of the other quantities studied is not particularly affected by Co^{2+} and Ni^{2+} in a wide range of concentrations, with the exception of deteriorating the dependence of Tk_f by additions of Co^{2+} . The behavior of trivalent Cr as substituent of a tetravalent element is not unambiguous, and it is probable that at higher concentrations it exists in the tetravalent form and does not enter the crystal lattice, but forms PbCrO_4 . This is accompanied by a considerable decrease of the values

of the piezoelectric functions and permittivity of these ferroelectrics. The systems PbZrO_3 — PbTiO_3 , as far as their applications as resonators

for filters are concerned, acquire the optimum properties 1) in the proximity of the transition between the tetragonal and rhombic modifica-

Cont 2/3

L 38405-66

ACC NR: AP6019919

D

tion, 2) in regions in which the substitution of strontium for lead amounts to about 5 at %, and 3) with additions of Cr^{3+} so long as its concentration, related to the total volume of the basic material, is around 0.25%. Orig. art. has: 4 figures. [Author's abstract.] [KS]

SUB CODE: 11/ SUBM DATE: 09Jul65/ SOV REF: 001/ OTH REF: 003/

09/

Card 3/3

db

TRUNKÁT, J., DVM; ČERNOHLÁVEK, V., Promoted to DVM.

Czechoslovakia

Brno, Veterinářství, No 12, 1962, pp 376-378

"Occurrence of Izo Anti-bodies in Sows and their
Influence on the Mass Occurrence of Haemolytic
Icterus in Nursling Piglets."

2

① CERNOHORSKY, A.

CZECHOSLOVAKIA

CERNOHORSKY, A., MD.

Department of Work Hygiene of the Hygienic-Epidemiological
Station NV-UM (Odbor hygieny prace hygienicko-
epidemiologicke stanice NV-UM), Prague

Prague, Prakticky lekar, No 6, 1963, pp 211-213

"Hygiene Problems of the Therapeutic Use of Radio-
active Materials."

KUDRNA, J.; CERNOMORSKY, A.; Department of Radiological Hygiene of the Station for Hygiene and Epidemiology of the City Council of the Capital City of Prague, Manager Doctor V. Krasna [Odde-
leni radiacni hygieny Hygienicko-epidemiologicke stanice N.V. hl.
m. Prahy, reditelka MUDr. V. Krasna].

"The Risk of Working with Au-198."

Prague, Pracovni Lekarstvi, Vol 15, No 7, 1963, pp 294-297

Abstract: The authors studied the influence of Au-198 on doctors and nurses who were attending patients being treated with Au-198. The doses of gamma radiation and its intensities were not dangerous to the medical personnel because of the short time of their exposure. The level of the ionizing radiation intensity has a value of 30-40 mr/hr for the entire body. It is therefore necessary to provide good training in handling the patients and the dead bodies in such a way, that the time of exposure would be minimized. The pencil dosimeters must be worn by all personnel and the readings registered daily. Patients who are expected to die should not receive treatment with Au-198 as work with bodies so treated requires special precautions.

3 Figures, 1 Table, 9 Western, 6 Russian references.

1/1

CZECHOSLOVAKIA/Radio Physics - Radiation of Radio Waves. Transmission I-4
Lines and Antennae

Abstr Jour : Ref Zhur - Fizika, No 1, 1959, No 1557

Author : Cernohorsky Dusan, Tichy Jaroslav
Inst : -
Title : Ferrite Antennas

Orig Pub : Slaboproudy obzor, 1958, 19, No 2, 86-91

Abstract : A brief review of ferrite antennas. The following principal characteristics of such antennas are considered: directivity pattern, effective height (h), efficiency, figure of merit (Q), and the product hQ , all as functions of the choice of the geometry and the ferromagnetic substance of the antennas. Particular attention is paid to an examination of the influence of the surrounding metallic objects on the parameters of a ferrite antenna. A comparison is made between the properties of ferrite and wire antennas on the basis of conclusions of the theory and the results of the experimental investigation. Bibliography, 12 titles.

Card : 1/1

V.I. Medvedev

Z/039/60/021/08/002/032
E140/E563

AUTHORS: Černohorský, Dušan, Engineer, Vrána, Vratislav, Engineer

TITLE: Simplified Calculation of Antenna Patterns⁵

PERIODICAL: Slaboproudý obzor, 1960, Vol 21, No 8, pp 454-459

ABSTRACT: A graphical-numerical method is given for the calculation of antenna radiation patterns. The current distribution on the antenna is substituted by a piecewise-constant distribution. It is assumed that the Earth has infinite conductance. The following cases are considered: radiation of a perpendicular conductor over the surface of the Earth; radiation of a horizontal conductor over the surface of the Earth; radiation of a capacitance-loaded antenna. ✓B

There are 9 figures, 3 tables and 7 references, 2 of which are Czech, 1 Soviet, 1 German and 3 English.

SUBMITTED: March 26, 1960

Card 1/1

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Z/039/60/021/012/002/002
E192/E382

9.1914 (1127)

AUTHORS: Černohorský, Dušan and Vrána, Vratislav, Engineers

TITLE: A Shortwave Vertical Antenna Operating with a
Progressive and a Standing Current Wave

PERIODICAL: Slaboproudý obzor, 1960, Vol. 21, No. 12,
pp. 730 - 734

TEXT: A wideband vertical antenna operating at short waves is analysed. The top load of the antenna (Fig. 1) consists of a resistance R and a terminating capacitance C . The current flowing through the capacitance C closes to the receiver through the earth surface and produces some radiation. The power lost in the earth surface and the power radiated can be taken into account by means of two equivalent resistances R_{e1} and R_{e2} , which are connected in series with C . In general, the second component can be neglected, i.e. $R_{e2} = 0$.
The load of the antenna is therefore given by :

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A Shortwave Vertical Antenna

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$$Z = R + R_{el} - j \frac{1}{\omega C} \quad (1) .$$

If $C \rightarrow \infty$, it can be assumed that the antenna is terminated with an ohmic resistance and the condition of the appearance of a progressive wave is therefore given by:

$$R + R_{el} = Z_o \quad (2)$$

where Z_o is the characteristic impedance of the antenna; this is approximately expressed by:

$$Z_o = 138 \left(\log \frac{2\ell}{d} - k \right) \quad (3)$$

where ℓ is the length of the antenna,
 d is the diameter of the antenna conductor and
 k is a constant depending on the ratio of the antenna
 Card2/7

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A Shortwave Vertical Antenna

length to its height above the Earth l_1 .

However, in general, it is not possible to meet the condition expressed by Eq. (2). It is therefore not possible to get a perfect progressive wave and a standing wave is also produced. In general, the terminating capacitance is of the order of tens of pF so that its reactance in the band of short waves is of the order of hundreds of ohms. The antenna cannot easily be matched and the standing-wave ratio is quite high. However, this situation can be overcome at least at one frequency by connecting a series inductance L to the terminal of the antenna. Now, at the resonant frequency of LC the top terminal of the antenna is effectively grounded and the standing wave is negligible. From the above, it is seen that, in general, a combination of progressive and standing wave is produced in the antenna so that its current can be expressed by:

$$i_z = I_0 \{ (1 + p) \cdot e^{j\alpha(l-z)} - j2p \cdot \sin[\alpha(l-z)] \} \quad (5)$$

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A Shortwave Vertical Antenna

where $\alpha = 2\pi/\lambda$,

z is a variable coordinate measured from the lower terminal of the antenna,

p is the current reflection coefficient for the top terminal of the antenna,

$I_o = I'_o \exp(-j\alpha z)$ is the amplitude of the wave at the end of the antenna and

I'_o is the amplitude of the current at the input of the antenna.

On the basis of the above, it can be shown that the field produced by the standing current wave is given by:

$$E_s = \frac{j 60 I_{os} e^{-j\alpha r} [\cos(\alpha \ell \cos \theta) - \cos \alpha \ell]}{r \cdot \sin \theta} \quad (8)$$

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where I_{os} is the amplitude of the current wave which is expressed by:

$$I_{os} = - I_o \cdot j \cdot 2p \quad (9) .$$

On the other hand, the field due to the progressive wave is given by:

$$E_p = \frac{-j 60 I_{op} e^{-jar}}{r \cdot \sin \vartheta} \left\{ \cos \vartheta \cdot \sin(\alpha \ell \cos \vartheta) + \right. \\ \left. + j [e^{j\alpha \ell} - \cos(\alpha \ell \cos \vartheta)] \right\} \quad (10) \quad \checkmark$$

where I_{op} is expressed by:

$$I_{op} = I_o (1 + p) \quad (11) .$$

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A Shortwave Vertical Antenna

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The total field is given by the sum of the components expressed by Eqs. (8) and (10). On the basis of the above formulae, it was possible to determine the radiation diagrams and input impedances for the antenna with and R , L , C load. From these diagrams it is found that the radiation patterns of the antenna do not differ substantially from those of a similar antenna with a simple standing wave; the only substantial difference is observed in the shape of the side lobes. On the other hand, the presence of a progressive wave in the antenna current results in a "smoothing" effect of the input resistance of the antenna. It is found, in particular, that with a suitable L and $R = R_0$ (where R_0 is the characteristic resistance of the antenna) the impedance characteristic at frequencies between 4 and 14 Mc/s is comparatively uniform. X

Card 6/7

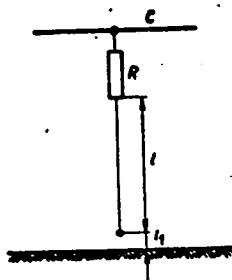
A Shortwave Vertical Antenna

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E192/E382

There are 8 figures and 4 references: 1 Czech and 3 non-Czech.

SUBMITTED: May 5, 1960

Fig. 1:



Card 7/7

CERNOCKY, Ivo, inz.

Industrial safety in general and current repairs of steam power plants.
Energetika Cz 12 no.11:572-574 N '62.

CERNOHORSKY, J.

Absolute dynamic recorder and additional equipment for recording vibrograms in piston airplane motors. p. 462.

Construction of automatic machines. p. 470.

(Strojirenstvi. Vol. 7, no. 6, June 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

9(2)
AUTHORS: Černohorský, Jiří and Šťastný, Alois, Engineers CZECH/14-~~9~~-4-14/48
TITLE: Measuring Acceleration
PERIODICAL: Sdělovací Technika, 1959, Vol 7, Nr 4, pp 133-135
(Czechoslovakia)
ABSTRACT: Acceleration is a very important mechanical occurrence and the task of measuring it of the greatest significance. Since the requirements of measuring acceleration and its course are various, the article aims to describe the measuring systems and some measuring equipment, consisting of a substance, a spring and eventually, an absorber. A simple instrument is sufficient for measuring the limits of acceleration. More complicated are the instruments and procedures of dynamic measuring. Upon calculating the deviation, the information obtained can be transposed to an electrical signal which is easy to elaborate further on. The most frequently used acceleration meters are described, with special attention paid to their electronic accessories. In order to measure the accelera-

Card 1/2

✓

Measuring Acceleration

CZECH/14-~~51~~-4-14/48

tion reliably, it is necessary to gage the instruments and equipment regularly. The gaging is most frequently done on electro-dynamic vibrators. The latter and their capacity are described briefly at the end of the article. There are 10 diagrams, 2 graphs, 2 photographs and 1 table. ✓

Card 2/2

9.6180

Z/032/60/010/011/005/007

E073/E335

AUTHORS: Černohorský, J., Engineer and Štastný, A., Engineer

TITLE: Measurement of Some Mechanical Values by means of
Piezoelectrical Sensors ¹⁴

PERIODICAL: Strojírnoství, 1960, Vol. 10, No. 11,
pp. 849 - 860

TEXT: First, the authors describe the basic principles of piezoelectricity, explaining the physical principles of current methods and briefly discussing the properties of SiO_2 , BaTiO_3 , seignette salt and ADP. Following that, the electric circuit of a sensor is briefly discussed and data are given on electro-metric electron tubes, including data on some Czech and Russian tubes (Table 3, Fig. 11). Accelerometers are dealt with in some detail and so are pressure gauges for measuring the pressures in the combustion spaces of piston engines. Data are included on some commercially available accelerometers produced in Great Britain, USA and Denmark. Data are also given on piezoelectric pressure gauges for measuring the pressures in combustion chambers produced by Brosa and P.E. Klein (West Germany) and SLM (Switzerland). The authors conclude their review by stating Card 1/2 ✓

Z/032/60/010/011/005/007

E073/E335

Measurement of Some Mechanical Values by means of Piezo-electrical Sensors

that the most important application of piezoelectric sensors appears to be for measuring pressures during combustion processes, in rocket research, nuclear physics, during testing of explosives and for accelerometers and piezoelectric vibrators enabling calibration of sensors within a wide frequency range. There are 31 figures, 5 tables and 18 references: 5 Czech, 1 Swiss, 2 English, 4 German and 6 Soviet. ✓c

ASSOCIATION: Závody J. Dimitrova, n.p., Letňany
(J. Dimitrova Works, n.p., Letňany)

Card 2/2

CERNOHORSKY, J., inz.; STASTNY, A., inz.

Electrodynamic generator of mechanical vibrations. Strojirenstvi
12 no.7:529-540 JI '62.

1. Vyzkumny a zkusebni letecky ustav, Letnany.

CERNOHORSKY, J., doc. MUDr.; DUSEK, J., MUDr.

Anatomic and cardiographic picture of rupture of the heart.
Vnitřní lek. 11 no.9:833-841 S '65.

1. I. vnitřní klinika lek. fak. University Palackého v Olomouci
(prednosta prof. MUDr. P. Lukl) a Patologicko anatomický ústav
lek. fak. University Palackého v Olomouci (prednosta doc. MUDr.
Vl. Valach).

CERNOHORSKY, J.; DUSEK, J.

The electrocardiographic picture of double infarcts. Cor vasa 5
no.1:1-17 '63.

1. 1st Internal Clinic and the Institute of Pathological Anatomy,
Palacky University, Olomouc.
(MYOCARDIAL INFARCT) (ELECTROCARDIOGRAPHY)

CZECHOSLOVAKIA

A. OSTADAL, J. CERNOMORSKY and K. PRASIL, Departments of Neurology, Pathology, and Dermatology, Okres Institute of National Health (Neurologické oddelení, kožní oddelení a patologickoanatomické oddelení Okresního Ústavu Národního Zdraví) Havlíčkův Brod.

"Diagnosis of Latent Muscular Sarcoidosis."

Prague, Ceskoslovenska Neurologie, Vol 26(59), No 3, May 63; pp 210-212.

Abstract [English summary modified]: Case report on woman aged 53 who had sarcoidosis, mainly of skin and hand bones and thoracic lymph nodes but also some muscles of lower extremity. Muscular impairment was quite minimal; the typical interstitial changes are described; they correspond to those previously reported by others. Eighteen Western references.

- END -

1/1

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CSO: 2000-N

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CERNOHORSKY, J.

The electrocardiogram in pulmonary embolism stimulating
anterior infarction. Cor vasa 5 no.4:273-281 '63.

1. First Internal Clinic, Palacky University, Olomouc, Czechoslovakia.

(PULMONARY EMBOLISM) (MYOCARDIAL INFARCT)
(ELECTROCARDIOGRAPHY) (DIAGNOSIS, DIFFERENTIAL)

CERNOHORSKY, J.

" Electrocardiographic Diagnosis of the Cardiac Aneurysm," p. 295.
(Casopis Lekaru Ceskych, Vol.92, No.11, Mar. 1953, Praha.)

SO: Monthly List of East European Vol.2, No.9
Russian Accessions,/Library of Congress, September 1953, Uncl.

CERNOHORSKY, Jindrich, MUDr; GROH, Jindrich, MUDr

Clinical picture of ruptured interventricular septum complicating myocardial infarction. Cas. lek. cesk. 93 no.38:1030-1036 17 Sept 54.

1. Z interni kliniky Vojenske lekarske akademie v Hradci Kralove.
(MYOCARDIAL INFARCT, complications,
interventricular septum rupt.)
(HEART,
interventricular septum rupt. in myocardial infarct)

CERNOHORSKY, J., Doc. Dr.; HAUFTOVA, D., Dr.; LUKL, P., prof. Dr.

Long lasting paroxysmal ventricular tachycardia in the course of myocardial infarct stopped by intravenous quinidine. Cas. lek. cesk. 93 no.48:1320-1325 26 Nov 54.

1. Interni klinika FU v Olomouci. Prednosta prof. Dr. P.Lukl
(TACHYCARDIA, PAROXYSMAL
 ventric. with myocardial infarct, ther. by quinidine)
(MYOCARDIAL INFARCT, complications
 tachycardia, paroxysmal, ventric., ther. with quinidine,
 intravenous admin.)
(QUINIDINE, ther. use
 tachycardia, paroxysmal ventric. with myocardial infarct,
 intravenous admin.)

CERNOHORSKY, Jindrich, MUDr.

Hidden myocardial infarction. Vnitr. lek., Brno 1 no.5:321-331
May 55.

1. Z vnitřní kliniky PU Olomouc, přednosta prof. MUDr. Pavel Lukl.
K 50. narozeninám prof. MUDr. P. Lukla. Olomouc, Fakultní nemocnice.
(MYOCARDIAL INFARCT
hidden, diag. ECG.)
(ELECTROCARDIOGRAPHY, in various diseases
myocardial infarct. hidden.)

GROH, Jindrich, MUDr.; CERNOHORSKY, Jindrich, MUDr.

~~Dissecting aortic aneurysm. Vnitr. lek. Olomouc.~~
Dissecting aortic aneurysm. Vnitr. lek., Brno 1 no.6:
426-435 June 55.

1. Z interni kliniky VLA a z I. intrni kliniky v Olomouci.
MUDr. J. C. Olomouc, nemocnice.
(AORTIC ANEURYSM
dissecting, incidence & diag.)

CERNOHORSKY, Jindrich, MUDr.

Significance of W.P.W. syndrome. Vnitr. lek., Brno 1 no.9:
646-654 Sept 55.

1. I. vnitřní klinika PU v Olomouci, přednásta prof. MUDr.
Pavel Lukl, Olomouc, St. fakultní nemocnice, I. vnitřní klinika.
(HEART BLOCK
Wolf-Parkinson-White synd.)

GERNOHORSKY, Jindrich, MUDr

**Preoperative preparation in heart diseases. Rozhl.chir. 34 no.10:
589-594 Dec 55.**

1. Z I. interni kliniky FU, Olomouc; prednosta prof. MUDr Pavel Lukl.
(CARDIOVASCULAR DISEASES, surgery,
preop. care (Cz))
(PREOPERATIVE CARE,
in cardiovasc. dis. (Cz))

~~CERNOHORSKY, Jindrich, MUDr.; GROH, Jindrich, MUDr.~~

Isolated calcifying aortic stenosis. Cas.lek.cesk. 94 no.20:
542-547 13 May 55.

1. Interni klinika v Hradci Kralove.

(AORTIC VALVE, stenosis,

calcifying, diag., reasons of errors)

GERNOHORSKY, Jindrich, MUDr; GROH, Jindrich, MUDr.

~~CONFIDENTIAL~~

Isolated calcifying aortic stenosis. Cas.lek.cesk. 94 no.20:
547-550 13 May 55.

1. Interi klinika v Hradci Kralove.
(AORTIC VALVE, stenosis,
diag., x-ray)

EXCERPTA MEDICA Sec.6 Vol.11/2 Internal Med. Feb.57
ČERNOHORSKÝ J.

872. ČERNOHORSKÝ J. First Med. Clin., Palacký Univ., Olomouc. *A vector analysis of the W-P-W syndrome CARDIOLOGIA (Basle) 1956, 29/4 (278-290)

ECG changes in 22 cases of W-P-W syndrome were analysed with the assumption that the electric field, not only in the limb leads, but also in the chest leads, may be regarded as the manifestation of a single instantaneous vector. The delta wave in the limb leads always pointed in the same direction as the QRS axis, in the chest leads always forwards, in 4 cases perpendicularly into the V_2 lead and on the positive part of the V_6 lead and on the negative part of the V_1 lead. The average maximal vector pointed backwards in 7 cases and forwards in 15. Left-sided preponderance of the axis was found in 15 of all cases and in 11 with forward

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CONT.

orientation of the resultant vector. It is suggested that the premature activation occurs in the posterior wall of the left ventricle or in the ventricular septum from the back forwards. The inclination of the electric axis is determined by the localization and extent of the ventricular musculature affected by premature excitation.

LUKL, Pavel, Prof., Dr.; CERNOHORSKY, Jindrich, Dr.

Diagnosis of myocardial infarct; importance of amasesis and
electrocardiography. Cas. lek. cesk. 95 no.25-26:677-683
29 June 56.

1. Z. I. Interni kliniky PU v Olomouci. Prednosta: Prof. Dr.
Pavel Lukl. P. L., I. inter. klinika PU, Olomouc.
(MYOCARDIAL INFARCT, diag.
ECG and case history (Cz))

CERNOHORSKY, J.

EXCERPTA MEDICA Sec.18 Vol.1/8 Cardiovascular Aug 57

2336. CERNOHORSKY J., KUBASTA M. and HOLUSA R. I Vnitřní Klin. PU, Path. Anat. Ust. PU, Olomouc. Průtržení příjčné vyduť aorty do horní duté žíly
Rupture of syphilitic aneurysm of aorta into the superior vena cava Vnitř. lék. 1957, 3/2 (156—163) Illus. 4

A case of perforation of syphilitic aneurysm of aorta into the superior vena cava is described, which had been diagnosed intra vitam, and the literature is reviewed. The diagnosis of the above-mentioned perforation was based on typical history and striking complex of symptoms caused by the sudden change of haemodynamic conditions: abrupt onset of oedema, cyanosis and congested veins of the upper part of the body, continuous systolic-diastolic murmur over the aorta and aneurysm of the thoracic aorta proved by X-ray examination. The patient died 66 days after the perforation of aorta. The diagnosis was confirmed at post-mortem examination.
(XVIII, 6)

EXCERPTA MEDICA Sec 18 Vol 3/8 Cardio. Dis. Aug 59

2078. Chest leads and posterior wall myocardial infarcts CERNOHORSKY J. First Med. Clin., Palacky Univ., Olomouc *Rev. Czech. Med.* 1958, 4:3 (202—216) Graphs 10 Illus. 1

In 20 typical cases of posterior wall myocardial infarction the authors observed certain changes in the chest leads, chiefly in V1, V2 and V3: ST depression, increase of R with a simultaneous decrease of S and high peaked T. Some of these changes seemingly reflect the picture of a right ventricular hypertrophy. In agreement with clinical and pathological evidence, a right ventricular hypertrophy seems to be unlikely because of the shift to the left of the electrical axis in the limb leads as well as the high T in the right precordial leads. It is emphasized that the chest lead changes may be helpful in a more exact diagnosis of high posterior myocardial infarction.

Rado - Budapest (XVIII, 6*)

CERNOHORSKY, Jindrich
SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: Docent, Dr

Affiliation: First Internal Clinic, UP /Universita Palackeho; Palacky Uni-
versity/ (I. vnitřní klinika UP), Olomouc; Director: Prof
Pavel LUKL, MD.

Source: Prague, Vnitřní Lekarství, Vol VII, No 6, June 61, pp 626-634.

Data: "Clinical Picture of Pulmonary Embolism."

"Diagnostic Value of the Direction of Final Vectors of QRS Complex
in Limb Leads in Acute Cor Pulmonale." ibid. pp. 635-641

12

CERNOHORSKY, J.

Antistreptolysin titer in psoriasis in children. Cesk. dermat. 37 no.5:
300-306 0 '62.

1. Kozni oddeleni nemocnice OUNZ v Havlickove Brode, prednosta dr.
J. Cernohorsky.

(PSORIASIS)

(ANTISTREPTOLYSIN)

CERKOHORSEY, Jindrich, doc. MUDr.

Myocardial infarction with high Rv-1. Vnitni lek. II no.4:
313-320 Ap'65.

1. I. vnitni klinika lekárske fakulty University Palackého
v Olomouci (prednosta: prof. MUDr. Pavel Lukl).

CERNOHORSKY, J.

Certain causes of failure of roentgenotherapy in eczema. Cesk. dermat.
27 no.5-7:192-202 Aug 1952. (CLML 23:2)

1. Of the Skin Department (Head--J. Cernohorsky, M.D.) of State
Regional Hospital in Havlickuv Brod.

CERNOHORSKY, Josef, MUDr; SAJFERT, Milos, MUDr

Ehlers-Danlos' syndrom. Cas.lek.cesk. 91 no.11:327-333 14 Mar 52.

1. Z kozniho (prednosta: MUDr Josef Cernohorsky), a chirurgickeho oddeleni (prednosta: vl. rada MUDr Pavel Trnka) stat. oblasti nemocnice v Havlickove Brode.

(EHLERS-DANLOS syndrome, pathology)

CERNOHORSKY, Josef, MUDr

Ultraviolet radiation in etiopathogenesis of occupational dermatoses.
Česk. dermat. 34 no.4:231-236 Aug 54.

1. Z kožního oddělení nemocnice v Havlickově Brodě, prim. MUDr.
Josef Cernohorsky

(DERMATITIS, etiology and pathogenesis
ultraviolet rays in occup. dermatitis)
(OCCUPATIONAL DISEASES
dermatitis due to ultraviolet radiation)
(ULTRAVIOLET RAYS, injurious effects
dermatitis, occup.)

CERNOHORSKY, Josef, MUDr.; REJF, Milan, MUDr.; REJFOVA, Miroslava, MUDr.

Myxoedema circumscriptum thyreotoxicum in a 15-year-old girl.
Cesk. dermat. 31 no.2:95-100 Apr 56.

1. Z kozního oddelení (primar Dr. Josef Cernohorsky) a z
interního oddelení (primar Dr. L. Lahohy) nemocnice v
Havlickove Brode.

(MYXEDEMA, case report,
myxoedema circumscriptum in adolescent (Cz))

CERNOHORSKY, Josef

Follicular keratosis in twins. Cesk. dermat. 36 no.2:86-90 '61.

1. Kozni oddeleni nemocnice Havlickuv Brod, prim. MUDr.
Josef Cernohorsky.

(KERATOSIS in inf. & child.) (TWINS dis.)

CERNOHORSKY, J.; DUSEK, J.

The influence of pulmonary embolism on the ECG pattern of posterior myocardial infarction. Cor vasa 5 no.3:157-164 '63.

1. First Medical Clinic and Department of Pathology, Faculty of Medicine, Palacky University, Olomouc, Czechoslovakia.
(PULMONARY EMBOLISM) (MYOCARDIAL INFARCT)
(ELECTROCARDIOGRAPHY)

RYS, P.; KLESNIL, M.; CERNOHORSKY, M.; HABROVEC, F.

Interpretation of the results of the study of carbon steel
extraction replicas. Hut listy 19 no. 5: 349-358 My '64

1. Institute of Metal Properties, Czechoslovak Academy of
Sciences, Brno.

CERNOHORSKY, M.

X-ray crystallographic and thermal analysis of the system $\text{SeO}_2\text{-H}_2\text{O}$. Karel Dostál and Martin Cernohorský (Masarykova Univ., Brno, Czech.). *Chem. Zvesti* 50, 702-10 (1956).—The system $\text{SeO}_2\text{-H}_2\text{O}$ was studied at concns. higher than 87.5% SeO_2 . The results of thermal analysis previously reported [C.A. 49, 12101f] were verified by the x-ray crystallographic analysis. The existence of the hydrate $3\text{SeO}_2\cdot 2\text{H}_2\text{O}$ and of the pyroselenic acid H_2SeO_5 was confirmed. A new hydrate $3\text{SeO}_2\cdot \text{H}_2\text{O}$ (H_2SeO_5) was detected, confirmed by the thermal analysis and isolated (a compd. with an incongruent m.p. of 38.9°). The SeO_2 compd. by the dehydration of H_2SeO_5 and that prepd. by the reaction of SO_2 with K_2SeO_4 have the same crystallographic structure. — E. Břidls

2

RM

ČERNÝ, GRŠLY, & MARTIN.

21
 Nomographs for cubic lattices. Martin Černohorský
 (ČSAV, Brno). *Práce Brněnské Zvláštní Ceskoslov. Akad.*
 V. 30, 131-53 (1958) (English summary).—Nomographs
 are described which: facilitate preliminary analysis without
 detailed measurements of the Debye diagrams; record
 directly the Bragg angles and lattice consts., by using linear
 scales; can be used for any wave length; in the most often
 used region, record directly the superposition of the systems
 of α and β lines; do not require paying attention to a choice
 of curves for individual types of lattices... H. Newcombe ..

3

CZECHOSLOVAKIA/Solid State Physics - Structural Crystallography E-4

Abs Jour : Ref Zhur - Fizika, No 12, 1958, No 27449

Author : Cernohorsky Martin

Inst : Not Given

Title : Czechoslovak Academy of Sciences, Laboratory for Metals,
Brno, Czechoslovakia. Graphical Solution of the Bragg Equation.

Orig Pub : Prace Brnenske zaklad. CSAV, 1958, 50, No 4, 155-159

Abstract : A nomogram is constructed for solving the Bragg equation in the wavelength interval from 0.5 to 2.3 Å. It is suitable, in particular, for the determination of the shift of diffraction lines when the wavelength changes. It makes it possible to identify rapidly the β lines.

Card : 1/1

CERNOHORSKÝ, M.

24(6)

PHASE I BOOK EXPLOITATION

CZECH/1960

Pišek, František, Academician; Aleš Vetiška, Doctor, Engineer; Jiří Škarek, Engineer (Part 1); Karel Cíha, Engineer; Martin Černohorský, Doctor; and Dalibor Ružička, Engineer (Part 2)

Nauka o materialu. II. 1. svazek; 2 svazek (The Science of Materials. Vol II. Part 1 and Part 2) Praha, Nakladatelství Československé Akademie Věd, 1959. Part 1, 658 p., Part 2, 669 p. Errata slip inserted. 4250 copies printed.

Sponsoring Agency: Československá Akademie Věd. Sekce technická.

Scientific Ed.: Ladislav Jeníček, Professor, Engineer, Doctor; Reviewers: Jaroslav Němec, Professor, Engineer, Doctor, Josef Šen, Engineer, Vladimír Hajdovský, Doctor, Milič Roubal, Engineer, Josef Vodsedálek, Engineer; Zdeněk Ministr, Engineer, and Antonín Fingerland; Recp. Ed. Ladislav Hrdina; Tech. Ed.: Jaroslav Hrubý.

PURPOSE: This book is for engineers and technicians in the field of mechanical engineering, specializing in the strength of materials.

COVERAGE: This is the second volume of an exhaustive work entitled "Science of

Card 1/41

The Science of Materials

CZECH/2360

Materials". The volume comprises two parts published as two books. Subjects covered include test methods and the mechanical properties of materials (metals). The first part is devoted to testing methods and apparatus used in testing the strength of materials. Both Western, Soviet, and East European sources are used. There are 455 references in Part 1. The second part covers the remaining methods for the study of metals: thermal methods, dilatometry, radiography, microscopy, and includes a detailed description of the principles and techniques of metallographic microscopy. There are 871 references in Part 2.

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1. Mechanical Testing

Basic concepts of the mechanical testing of metals

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CZECHOSLOVAKIA/Solid State Physics - Structural Crystallography. E

Abs Jour : Ref Zhur Fizika, No 11, 1959, 24913

Author : Cernohorsky, Martin

Inst :

Title : Determination of the Accuracy in Measurement of Interplanar Distances.

Orig Pub : Prace Brnenske zaklad. CSAV, 1959, 31, No 2, 77-129

Abstract : An analysis was made of the influence of various methods of taking the x-ray photographs of polycrystals on the accuracy of the determination of interplanar distances (front and back photography on plane and cylindrical cassettes) and the effect of processing of the resultant x-ray pictures. The following were considered:
1) Direct method -- determination of θ from indirectly-measured quantities on the x-ray photograph and radius (distance from the crystal to the film) of the cassette;
2) relative method, with use of the d_0 of the standard;

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CZECHOSLOVAKIA/Solid State Physics - Structural Crystallography. E

Abs Jour : Ref Zhur Fizika, No 11, 1959, 24913

3) absolute method -- with use of various d_1 and d_2 of the same sample. The results are presented in the form of "correcting" functions $z(\theta)W(\theta_0, \alpha)$ and $z_1(\alpha_1, \alpha_2)$, expressed analytically, and also in the form of numerical tables and detailed graphs. The use of the results of this work permits a rapid estimate of the best experimental setup and method for measuring the film, an optimum range of angles, the accuracy at which the measurement must be carried out, and also the accuracy with the b_0 of the standard should be known for each specific case.
-- T.N. Tarkhova

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COUNTRY	: Czechoslovakia	B-5
CATEGORY	: Physical Chemistry--Crystals.	
ABS. JOUR.	: RZKhim., No. 21 1959, No.	73958
AUTHOR	: Cernohorsky, M.	
INSTR.	: Not given	
TITLE	: Absolute Measurements of Lattice Constants with a Cylindrical Camera	
ORIG. PUB.	: Prace Brnenske Zaklad CSAY, 31, No 2, 130-147 (1959)	
ABSTRACT	: A method is proposed for the precise determination of lattice constants for cubic, tetragonal, and hexagonal powder specimens. The diffraction patterns were recorded with a cylindrical powder camera using flat specimens mounted on the camera axis perpendicularly to the x-ray beam. The results from the measurements were treated by the ratio method (RZhKhim, 1957, No 13, 43784), taking into account the peculiarities of the registrations. The use of a cylindrical camera has in-	

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